L 59551-65

ACCESSION NR: AR5012846

isotope gallium-72. The sodium aluminate solutions used for the experiments had the composition: Al₂O₃ 30-50 grams/liter, Na₂O_{caust} 80-140 grams/liter at a temperature of approximately 85-90C, and the duration of the experiments was 8-14 hours. Gallium can be completely separated from the solution, but its separation takes place at the end of the process, when the greater part of the Al₂O₃ has already been separated out. Analogous results were obtained with the aid of activation analysis. The process of carbonization of pure solutions of sodium gallate at temperatures of 20 and 90C was studied. Gallium begins to precipitate out only in the absence of sodium hydroxide in the solution and can be separated practically completely from the solution. The main product of the carbonization of sodium gallate solutions at 90C is gallium oxide monohydrate, while at 20C, gallium oxide monohydrate precipitates out at first, and then a mixture of this with sodium gallocarbonate. The conditions of formation and some of the physical and chemical properties of Na₂O. Ga₂O₃. 2CO₂. nH₂O were studied. Orig. art. has: 7 figures, 3 tables. Author's abstract.

SUB CODE: 10, GC

ENCL: 00

Card 2/2 000

ACCESSION NR: AP4029191

8/0078/64/009/004/0925/0930

AUTHOR: Permyakova, T. V.; Lileyev, I. S.

TITLE: Production of lanthanum silicates

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 4, 1964, 925-930

TOPIC TAGS: lanthanum silicate, production, exchange reaction, lanthanum pyrosilicate, lanthanum oxyorthosilicate, lanthanum orthosilicate, La sub 2 O(SiO sub 4), x ray ionization curve, solubility, purification

ABSTRACT: The possibility of preparing lanthanum silicates at lower temperatures by exchange reactions between lanthanum salts and sodium silicates was investigated. Some chemical properties of the lanthanum silicates were examined. La₂(SO₄)₃ and sodium silicate were reacted in ratios of 1:3, 1:1, and 1:2. Lanthanum pyrosilicate was formed by reaction with 3 moles of sodium meta- or disilicate:

 $\text{Las}(\text{SO}_4)_3 + 3 \text{NasSiO}_3 \rightarrow 3 \text{NasSO}_4 + [\text{Las}(\text{SiO}_3)_3] \rightarrow 3 \text{NasSO}_4 + \text{LasSisO}_7 + \text{SiO}_3$

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"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929920010-9

ACCESSION NR: AP4029191

Lag (SO4)s + 3NasSisOs → 3NasSO4 + [Las (SisO4)s] → 3NasSO4 + 3LasSisO7 + 34SiO5

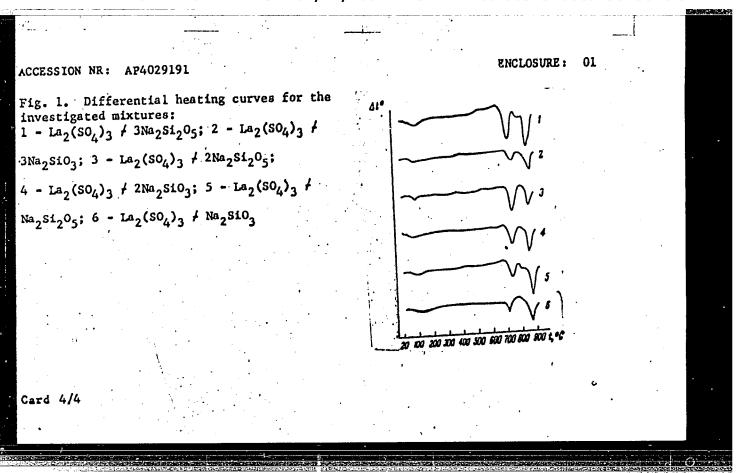
The product of the reactions of the 1:1 and 1:2 component ratios was lanthanum oxyorthosilicate La₂O(SiO₄) and possibly lanthanum orthosilicate. The temperature for obtaining lanthanum silicates by exchange reaction is far lower than by roasting the oxides (900-1000 C instead of 1600 C) (fig. 1). X-ray ionization curves of the reaction products obtained by reaction of the different component ratios at 600-1600 C are given. The solubility of the lanthanum silicates in water, caustic and acid solutions was determiled. They are practically insoluble in water and caustic solutions (only 5 wt.7 of the pyrosilicate dissolves in 12.5 N NaOH at 95 C in 12 hours). La₂Si₂O₇ is dissolved by acid, 21.5% in 0.1 N HCl and 99% in 1 N HCl. Pure lanthanum silicate can be produced by roasting lanthanum sulfate with 3 moles Na₂SiO₃ or Na₂Si₂O₅, treating the roast with caustic and water washing. Orig. art. has: 4 tables and 4 figures.

ASSOCIATION: Institut khimii silikatov im. I. V. Grebenshchikova Akademii nauk SSSR (Institute of Silicate Chemistry, Academy of Sciences, SSSR)

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ENT(m)/ENP(e)/ENP(t)/ENP(b)/ENP(1) IJP(e) JD/JG UR/0363/65/001/002/0222/0226 ACCESSION NR: AP5009372 AUTHOR: Isupova, Ye. N.; Lileyev, I. S. TITLE: Synthesis and properties of lanthanum borates SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 2, 1965, 222-226 TOPIC TAKS: lanthanum borate, inorganic synthesis ABSTRACT: Conditions for the synthesis of lanthanum borates and the chemical stability of these compounds were studied. Lanthanum borates were synthesized by exchange reaction between lanthanum sulfate and sodium borates and also directly from La203 and B203. The synthesis of lanthanum compounds by exchange reaction facilitates lowering of the temperature and less expensive and more abundant materials than the oxides may be used. The reactions of La₂O₃ with B₂O₃ in the 1100-1300°C range produced two compounds: lanthanum metaborate, La(BO2)3 and lanthanum orthoborate, LaBO3. The exchange reactions between lanthanum sulfate and sodium borates take place in the 900-1000°C interval. It was shown that both La(BO2)3 and LaBO3 may be synthesized by this method. The article describes the experimental condi-Card 1/2

CCESSION NR: AP5009372		2
decomposed by cold or boiling to the completely dest is was done by A. V. Bystr	or this synthesis. It was establing water nor by cold or boiling 6 royed by alkali. "The major part roya." Orig. art. has: 4 figures hii silikatov im. I. V. Grebenshch ry of Silicates, Academy of Science	of the chemical analy- and 2 tables. nikova Akademii nauk
SSSR (Institute of Chemistr SUBMITTED: 190ct64	ENCL: 00	SUB CODE: NT, GC
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(소리와 남자의 시설(설립) 등록 보기가는 경기를 하는다. 	그의 기계를 가는 것이 없는 것이 되었다. 그는 사람들은 그는 사람들이 가는 사람들이 되었다. 그 사람들이 모든 사람들이 되었다.	하기 그는 그리고 그는 전에 가장 전하기 되었다. 그 그리고 그리고 그리고 있는 모든

1. 49785-65 EWT(m)/EWP(b)/EWP(t) IJP(c) UR/0363/65/001/002/0227/0231 ACCESSION NR: AP5009373 AUTHOR: Kornilova, E. Ye.; Prikhid'ko, N. Ye.; Lileyev, I. TITLE: Lanthanum germanates AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 2, 1965, SOURCE: 227-231 TOPIC TAGS: lanthanum germanate, inorganic synthesis, germanium compound, lanthanum compound ABSTRACT: The experiments were conducted by sintering germanium and lanthanum oxides. The progress of the reaction was monitored by differential thermal analysis, x-ray diffraction, infrared absorption spectroscopy of the reaction products, selective dissolution of the unreacted germanium dioxide in 0.1 N NaOH, refractive index and quantitative chemical analysis. The experiments showed that the meta-, pyro- and oxyorthogermanates of lanthanum may be synthesized by sintering the oxides. It was found that at #300°C lanthanum metagermanate melts with decomposition into pyrogermanate and germanium dioxide. The measured physical constants of these compounds are summarized below: Card 1/2

. 49785-65 CCESSION NR: AP5009373				2
'ompound	mp,	density at 20°C, g/cm²	Refracti Ng	ve Index Ne
etagermanate La2[GeO3]3 Pyrogermanate La2[Ge2O2]	1300 ± 25 2050 ± 25	5.94 5.65	1.995 1.900	1.980 1.880
Oxyorthogermanate La ₂ [GeO4]0	1972 ± 25	5.73	1,935	1.915
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It was found that lantham Acids and concentrated baspectra of the synthesize and coworkers." Orig. an ASSOCIATION: Institut kitry of Silicates, Academy SUBMITTED: 05Nov63	ed products we to has: 3 finimii silikate of Sciences	ere obtained and into igures and 5 tables. ov Akademii nauk SSS	erpreted by	A. N. Lazarev

L 34501-55 EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pu-4 IJP(c) JD/JG ACCESSION NR: AP5002798 S/0078/65/010/001/0092/0097

AUTHOR: Guseva, I. V.; Lilevey, I. S.

TITLE: Preparation of <u>lithium</u> alumosilicates from aqueous solutions

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 1, 1965, 92-97

TOPIC TAGS: lithium alumosilicate, synthesis, ion exchange, lithium aluminum silicate

ABSTRACT: Hydrated lithium alumosilicates were obtained by reacting solutions of lithium silicate and lithium aluminate (containing excess LiOH) at 20 and 97 C. At room temperature the composition of the product was almost independent of the LiOH concentration and of the Al₂O₃:SiO₂ ratio in the initial solutions. The product obtained at 20C from solutions containing 10-50 g/1 Li₂O was amorphous Li₂O. Al₂O₃. 2SiO₂. nH₂O (I). Crystalline I was obtained at 97 C from solutions with a 1:1 Al₂O₃:SiO₂ ratio, containing less than 30 g/1 Li₂O. The precipitates formed under similar conditions using 1:2 and 1:4 reactant ratios comprised mixtures of Li₂O. SiO₂. mH₂O and I. When the Li₂O content was over 30 g/1 the pre-

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L 34501-55

ACCESSION NR: AP5002798

cipitates had compositions approximating 3Li₂O. Al₂O₃. 3SiO₂. nH₂O; their structure is to be studied further. Even with a 1:4 reactant ratio the precipitates did not have the Li₂O:Al₂O₃:SiO₂ ratio of spodumene. \$\beta\$-eucryptite was formed on heating I to 1000C. I was very slightly soluble in water; its solubility was increased by the addition of LiOH or NaOH solutions. When I was treated with NaOH solutions, the Li in the precipitate was completely replaced by Na, indicating the presence of ion exchange properties in I. Orig. art. has: 4 tables and 2 figures.

ASSOCIATION: Institut khimii silikatov im. I. V. Grebenshchinkova Akademii nauk SSSR (Institute of Silicate Chemistry Academy of Sciences SSSR)

SUBMITTED: 12Nov63 ENCL: 00 SUB CODE: GC, IC

NR REF SOV: 002 OTHER: 008

Card 1/2

L 5299-66 EWT(m)/T

ACC NR: AP5024963

SOURCE CODE: UR/0286/65/000/016/0024/0024

AUTHORS: Melkonyan, G. S.; Lileyev, I. S.; Darbinyan, M. V.; Arakelyan, O. I.; Dovlatyan, A. N.; Oganesyan, M. L.; Tokmadzhyan, G. S.

ORG: none

TITLE: A method for obtaining zeolites. Class 12, No. 173720 (announced by Scientific Research Institute of Stone and Silicates (Nauchno-issledovatel'skiy institut kamnya i silikatov)/

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 24

TOPIC TAGS: zeolite, perlite, volcanic glass

ABSTRACT: This Author Certificate presents a method for obtaining zeolites from natural minerals by treating the latter with a base at a temperature of 50-200C. The resulting zeolite is then strained and washed. To increase the amount of available raw materials and to lower the cost of zeolites, perlite rock is used as the original raw material.

SUB CODE: MT, GC / SUBM DATE: 12May64/ ORIG REF: 000/ OTH REF: 000

Card 1/1

UDC: 661.183.6

09010539

SHIROKOVA, P.V.; LILEYEV, I.S.

Synthesis of sodium gallosilicates at sintering temperatures.
Zhur. neorg. khim. 10 no.6:1402-1408 Je '65.

(MIRA 18:6)

1. Institut khimii silikatov imeni Grebenshchikova AN SSSR.

ISUPOVA, Ye.N.; LILEYEV, T.S.

Synthesis and some properties of lanthanum borates. Izv. AN SSSR.

Neorg. mat. 1 no.2:222-226 F '65. (MIRA 18:7)

1. Institut khimii silikatov Imeni Grebenshchikova AN SSSR.

KORNILOVA, E.Te.; PRIKHID'KO, N.Ye.; LILEYEV, I.S.

ianthamum germanates. 1zv. All SSSR. Neorg. mat. 1 nc.2:227-231
F 165.

(MIRA 18:7)

1. Institut khimil cilivatov AN SSSR.

GUSEVA, 1.V., HIETEV, I.S.

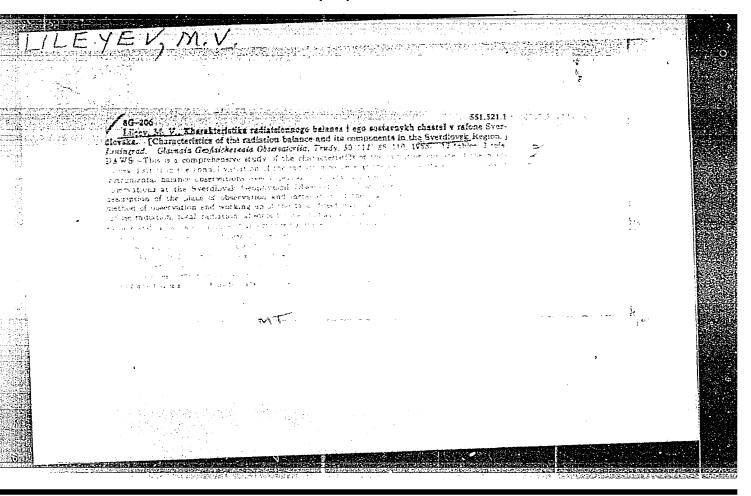
Preparation of lithium alumosilicates from aqueous solutions.
Znur. neorg. khim. 10 no.1:92-97 hs '65. (MIRA 18:11)

1. Institut khimii silikatov imeni Grebenshchikova AN SSSR.

Submitted Nov. 12, 1963.

L-61081-65 EMT (m)/EMP(b)/EMP(t) IJP(c) JD/JO UR/0078/65/010/007/1695/1700 ACCESSION NR: AP5018251 546.654'284 18 B AUTHOR: Permyakova, T. V.; Lileyev, I. S. Synthesis of lanthanum silicates from aqueous solutions TITLE: SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 7, 1965, 1695-1700 TOPIC TAGS: lanthamum silicate, lanthamum sulfate, sodium silicate, rare earth, lanthanum hydroxide ABSTRACT: The reactions between a lanthanum sulfate solution and solutions of sodium metasilicate, disilicate, and orthosilicate were studied by the methods of solubility, potentiometric titration, me/surement of the pH of equilibrium solutions, and measurement of the composition and volume of the precipitates. It was found that in all of the systems under consideration, an exchange reaction occurs with the formation of lanthanum silicates whose composition includes silicate anions corresponding to the sodium silicates introduced. In all three systems, up to an Si4+:La3+ ratio just below the value corresponding to the compound, lanthanum hydroxide coprecipitates with lanthanum silicate. The 1/2:

	AP5018251				0	
with the most with sodium d tained decrea Lanthanum dis mediately on	t of lanthanum halkaline composisilicate. The ses in the order ilicate is obtainly over a narrow compound. Orig.	thermal stability or thought the control of the con	it amount separa. lity of the lar e > metasilicat amorphous gel asilicate exist appe (850-9500);	thanum silicate > disilicate, and decompose as a crystal	tes ob- e. ses im- line thosilicate	
ASSOCIATION: SUBMITTED: 3		encl:	00 SI	JB CODE: IC		
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KARTASHEV, V.P.; LILEYEV, M.V.; SKUL'SKIY, V.Yu.; SHUKSTOVA, Z.N.

Observation of the total solar eclipse of June 30, 1954, by the Sverdlovsk eclipse expedition. Biul.VAGO no.23:3-17 158.

(MIRA 11:11)

1. Ural'skiy gosudarstvennyy universitet im. A.M. Gor'kogo i Sverdlovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.

(Eclipses, Solar--1954)

s/169/62/000/002/036/072 D228/D301

AUTHOR:

TITLE:

Main features of the radiation balance near Sverdlevsk

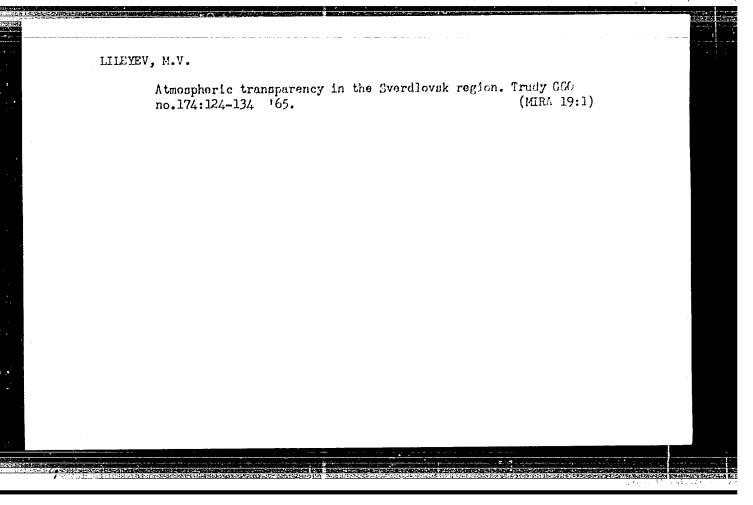
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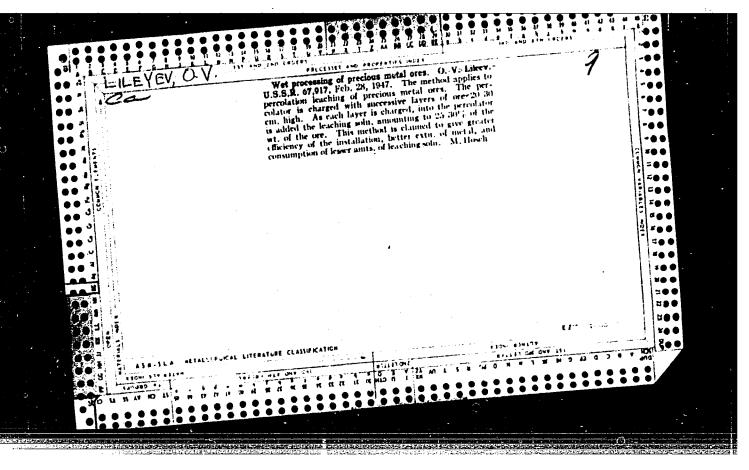
Referativnyy zhurnal, Geofizika, no. 2, 1962, 21, abstract 2B167 (V sb. Vopr. klimata Urala, Sverdolvsk;

TEXT: The characteristic of the radiation balance of the Central TEAT: The characteristic of the fautation balance of the dential Urals is given according to the multiyear observations of two according to the multiyear observations. tinometric stations (Sverdlovsk and Vysokaya Dubrava). Data are cited about the diurnal and annual variation of direct and summary radiation in the case of cloudless skies, the atmosphere's transparency, scattered and summary radiation under different cloud conditions, and the albedo and radiation balance of the underlying surface. Attention is paid to the considerable share of scattered radiation in the total heat influx. It is noted that the summary radiation is asymmetric in its diurnal and annual variation; Tris is on the whole, related to the peculiarities of the yearly cloud variation. The average annual sum of direct solar radiation com-

Card 1/2

On





KCROZO, V.I.; LILEYEV, O.V., red.; ISHUTINOVA, M.D., red.

[Rotary hearth furraces, their operation and adjustment] Vrashchaiushchiesia pechi i ikh tekhnicheskoe obsluzhivanie. Moskva, 1963. 42 p. (MIRA 17:7)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallurgii.

AUTHORS: Lileyev, S.K., Ol'shanskiy, S.F. SOV/113-58-4-1/21

TITLE: Experience From Interdepartmental Scheduling of Basic Production (Opyt mezhtsekhovogo kalendarnogo planirovaniya

osnovnogo proizvodstva)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 4, pp 1 - 4 (USSR)

ABSTRACT: There are two basically diverse methods of detailed production planning in the enterprises of the automobile industry:

the parallel method as used by the Gor'kovskiy avtozavod (Gor'kiy Automobile Plant) and the chain method as applied in the Moscow Automobile Plant imeni Likhachev. The latter produces tens of thousands of automobiles of medium load capacity a year, which are put out by the method of continuous mass production. Certain departments of the plant employ individual small serial, serial and large serial production methods. This includes repair and assembly shops, pattern and instrument sections, foundry, forge-pressing, accessory, metal-part and thermal-processing departments.

A mixture of these two production methods proved to be unsatisfactory, while experimental interdepartmental scheduling of the basic production guaranteed the rhythmic flow of

Card 1/2 the processes concerned in all departments. Three examples

SOV/113-58-4-1/21

Experience From Interdepartmental Scheduling of Basic Production

are given and the development of standard graphs comprising serial processes with respect to time, action and material explained. Establishing and following-up of the schedules is effected and handled by production-dispatching bureaus and departments. There are 6 tables.

ASSOCIATION:

Moskovskiy avtozavod imeni Likhacheva (The Moscow Automobile Plant imeni Likhachev)

- 1. Automobile industry--USSR 2. Passenger vehicles--Production
- 3. Industrial production -- Scheduling

Card 2/2

LILEYEV, S.R.

12(2)

SOV/113-59-4-3/19

AUTHORS:

Lileyev, S.K., Ol'shanskiy, S.F.

TITLE:

Experience in Organizing the Manufacture of a New Product

Without Interrupting Production

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 4, pp 3-6 (USSR)

ABSTRACT:

The change to the manufacture of the new three-axle truck ZIL-157 was performed by the Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Flant imeni Likhachev) during the third quarter of 1958 without interrupting the production process. This production change was a subsequent step in the production conversion system developed at the plant. This system was used for the first time in 1948 when the manufacture of the ZIL-150 truck was begun. Preparing the manufacture of a new product is divided into two phases. One consists in the design work, building of test models for checking design and calculated data. The second, a more important phase, is the development of the technology of the new manufacturing process. At automobile plants, the conversion of assembly lines for the manufacture of a new model is connected with

Card 1/2

sov/113-59-4-3/19

Experience in Organizing the Manufacture of a New Product Without Interrupting Froduction

great difficulties. The author mentions the experience of the American automobile industry. For example, Ford's production losses in 1947 were 298% of monthly production while ZIL lost 57% during the 1948 conversion and 28% in 1958. The author describes the various phases of the 1958 production conversion at ZIL. There are 1 graph and 2 tables.

ASSOCIATION: Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Flant imeni Likhachev)

Card 2/2

SLUTSKIY, M.I., inzh.; LILEYEV, S.K., inzh.

Mechanization and automation of production management in the assembly shops of the Likhachev Automobile Plant. Vest.mash. 42 no.4:82-85 Ap 162. (MIRA 15:4)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti (for Slutskiy). 2. Moskovskiy avtomobil'nyy zavod im. Likhacheva (for Lileyev).

(Moscow-Automobile industry) (Automation)

MYSLYAYEVA, A.V., kand. med. nauk; ZAKHVATKINA, I.A.; SVERDLOV, S.L.;

ANDREYEV, I.D., dotsent; GENADINNIK, I.S., kand. med. nauk;

KUZNETSOV, A.A., NIKOLAYEVA, G.V., prof.; SILAKOVA, V.V., dotsent;

SHAMLYAN, N.P.; FRIDMAN, M.N., dotsent; GORBYLEV, M.N.; SIGAL,

Ye.S., zasluzhennyy vrach RSFSR; KHOLOPOVA, L.N.; GABOV, A.A.;

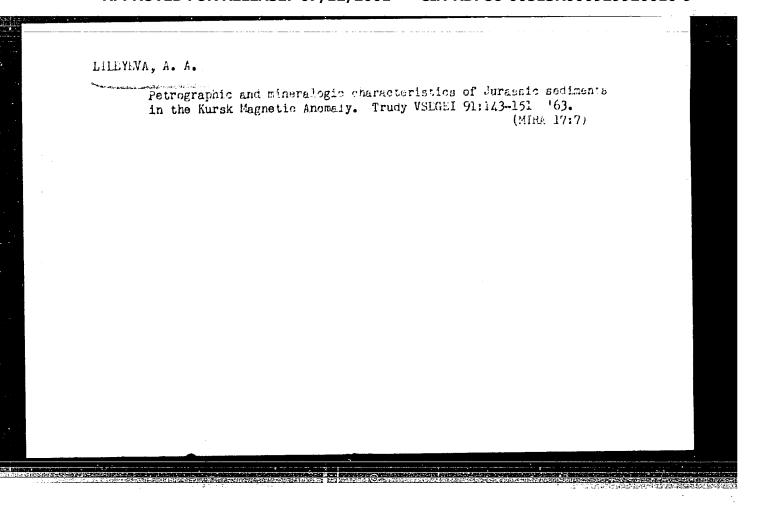
LILEYEV, V.A.; MAKAREVICH, Ya.A., kand. med. nauk; SHELEPIN, A.S.;

SHMELEV, M.M.; PEVZNER, G.I.; SILAYEV, Yu.S.

Abstracts. Sovet. med. 27 no.6:140-145 Je'63 (MIRA 17:2)

1. Iz kafedry propedevtiki wnutremnikh bolezney i patologicheskoy anatomii Kazakhskogo meditsinskogo instituta (for Myslymyeva,
Zakhvatkina). 2. Iz Novozybkovskoy mezhrayonnoy bol'nitsy
Bryanskoy oblasti (for. Sverdlov). 3. Iz kafedry normal'noy
anatomii II Moskovskogo meditsinskogo instituta (for Andreyev).
4. Iz kafedry obshchey khirurgii i kafedry rentgenologii
Chelyabinskogo meditsinskogo instituta (for Genadinnik, Kuznetsov). 5. Iz kafedry propedevticheskoy terapii Ivanovskogo
meditsinskogo instituta (for Nikolayeva, Silakova). 6. Iz
Lovozerskoy rayonnoy bol'nitsy Murmanskoy oblasti (for Shamlyan).
7. Iz kafedry gospital'noy terapii Bashkinskogo meditsinskogo
instituta i terapevticheskogo otdeleniya 8-y bol'nitsy (for

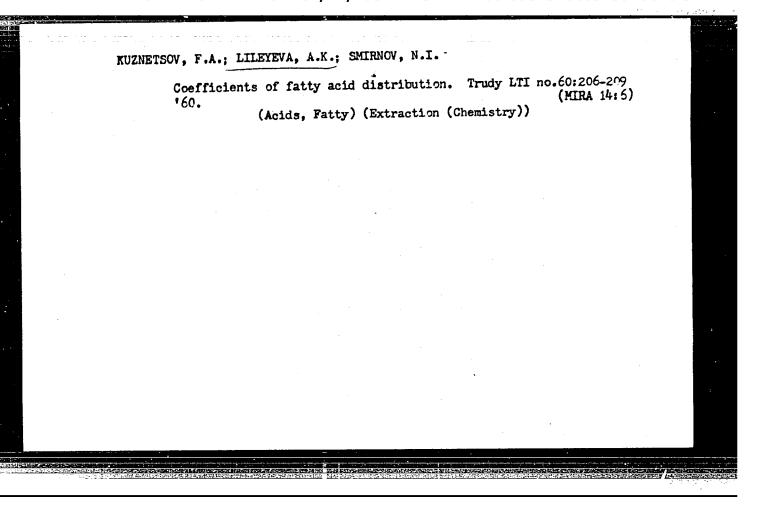
(Continued on next card)



LILEYEVA, A. K.

"Study of Mass Conveyance During Extraction in Pulverizer Towers." Cand Tech Sci, Leningrad Technological Inst imeni Lensovet, Min Higher Education USSR, Leningrad, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55



KUZNETSOV, F.A.; LILEYEVA, A.K.; SMIRNOV, N.I.

Equilibrium of extraction processes in some systems. Zhurprikl.khim. 34 no.8:1829-1834 Ag '61. (MIRA 14:8)

1. Kafedra tekhnologii osnovnogo organicheskogo sinteza i sintetichesklikh kauchukov Leningradskogo tekhnologicheskogo instituta imeni Lensoveta. (Systems (Chemistry))

(Extraction (Chemistry))

Critical equation of the extraction process. Zhur. prikl.

khim. 34 no.5:1158-1162 My '61. (MIRA 16:8)

l. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

(Extraction(Chemistry))

LILEYEVA, Z.V.

AID P - 2889

Subject

: USSR/Medicine

Card 1/1

Pub. 37 - 6/20

Authors

Lileyeva, Z. V., Dots.; Panfilova, K. S., Sanitary

Inspector; Khiopina, M. S., Chemist

Title

Chronic mercury intoxication of medical personnel in dentists' offices

Periodical

: Gig. i san., 9, 24-27, S 1955

Abstract

: Describes investigations made in dentists' offices in Yaroslavl', and presents case histories of dentists

and their assistants poisoned by mercury vapors.

Gives recommendations. 2 tables. 5 refs.

Institution:

Therapeutic Clinic of the Faculty, Yaroslavl' Medical Institute and Yaroslavl' Municipal

Medical and Epidemiological Station

Submitted

: Je 26, 1954

Rectal administration of narcotic mixture in sleep therapy for hypertension. Terap.arkh.27 no.5:64-67 '55 (MLRA 8:12) 1. Iz kafedry propedevtiki vnutrennikh bolezney (zav.prof. V.A.Krakov) Yaroslavskogo meditsinskogo instituta. (SLEEP, therapeutic use hypertension, rectal admin. of narcotic mixture) (HYPERTENSION, therapy, sleep ther., rectal admin. of narcotic mixture) (NARCOTICS, administration, rectal, in sleep ther. of hypertension)

BABANOV, G.P., kand.med.nauk; KLYUCHIKOV, V.N., dotsent; KARAYEVA, N.I.; LILEYEVA, Z.V., dotsent

Clinical aspects of chronic intoxication with nitrile acrylic acid. Vrach.delo no.8:833-835 Ag '59. (MIRA 12:12)

1. Kafedra obshchey giginy, fakul tativnoy terapii, nevropatologii, oto-rino-laringologii Yaroslavskogo meditsinskogo instituta.

(ACRYLONITRILE--TOXICOLOGY)

8(6)

SOV/112-59-5-8845

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 61 (USSR)

AUTHOR: Lileykin, V. B.

TITLE: Conditions and Organization of the Operating Service in the Leningrad High-Voltage System

PERIODICAL: Sb. tekhn. inform. po sel'sk. elektrifik., 1958, Nr 8-9, pp 54-58

ABSTRACT: The leading role of mechanized repair stations in line work and the need for a much better quality of repair material are noted.

Card 1/1

LILEYEO, P.G., (Kishinev).

Apparatus for experiments with three-phase current. Fig.
v shkole 16 no.6:55-57 N-D *56.

(Electric currents, Alternating-Study and teaching)

LILIC, B.

Yugoslavia (130)

summeries f transactions already published in specialized Serbian lan uage publications of the Academy). Vol. 2, no. 1, 1951.

East European Accessions List, Library of Congress, Vol. 1, no. 13, November 1952. UNCLASSIFIED.

"Card 2 of 2"

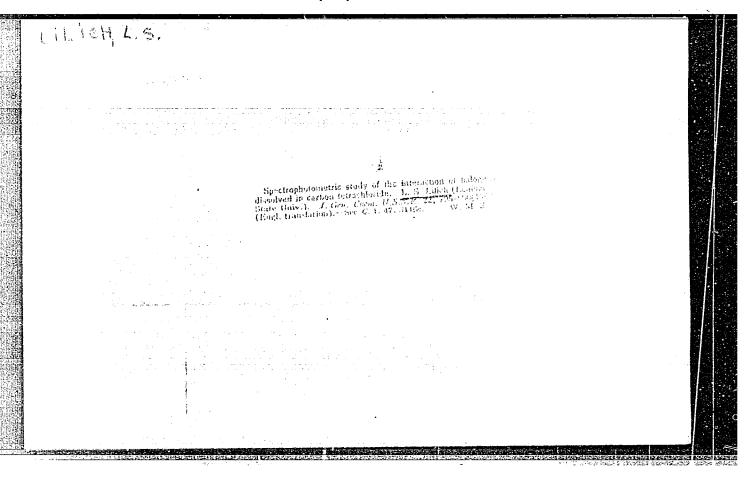
LILIC, S.

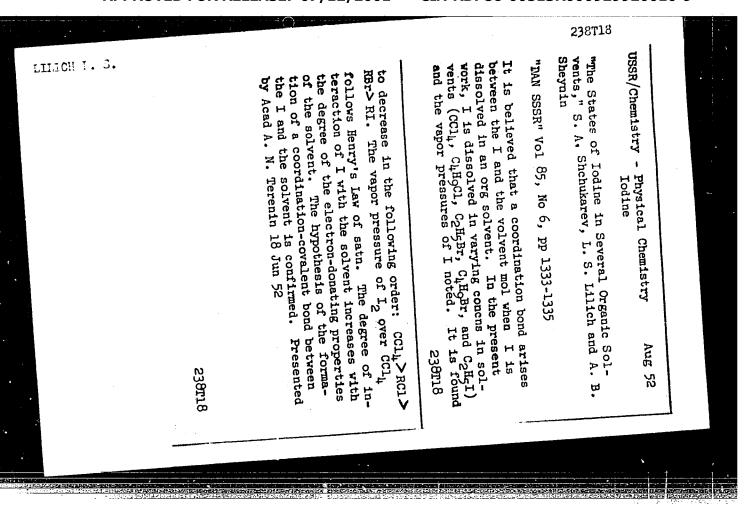
Conditions for development of the highvoltage electric industry in Serbia; a report. p. 212. Vol. 8, no. 4, July/ Aug. 1955. Elektroprivreda.

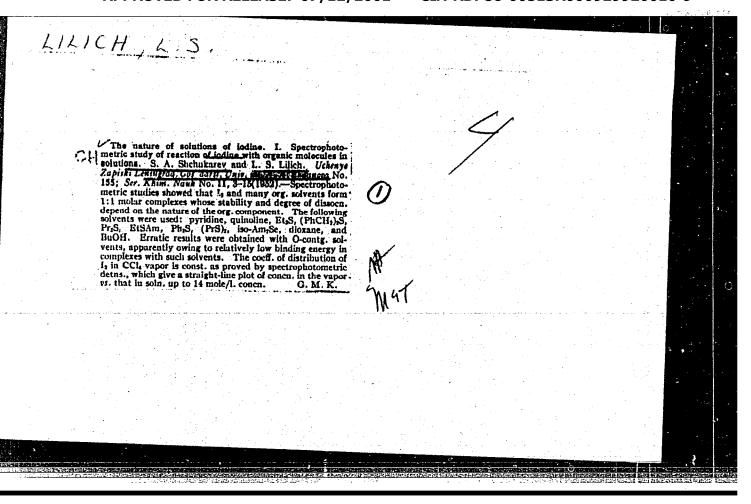
SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 2, Feb. 1956

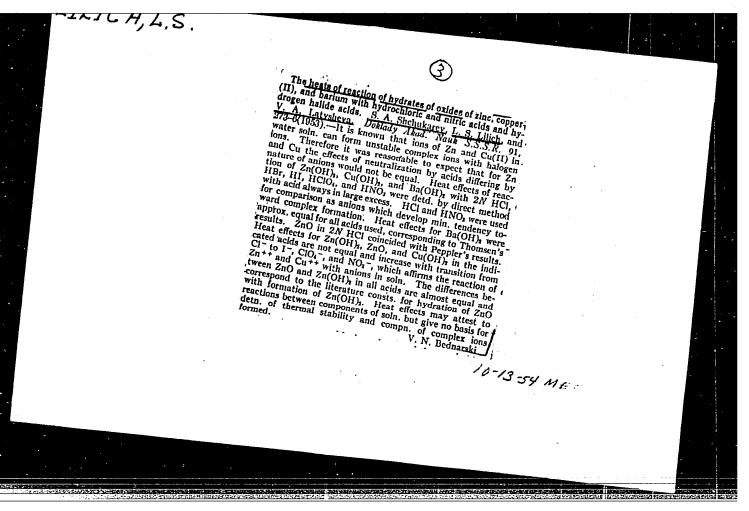
RAMM, Spiridon Naumovich, dots.; LILICH, Galina Alekseyevna, kand.
filol. nauk; MCGILEVSKIY, Lev Davydovich, inzh.; SMUL'SKAYA,
T.K., red.; PLAKSHE, L.Yu., tekhn. red.

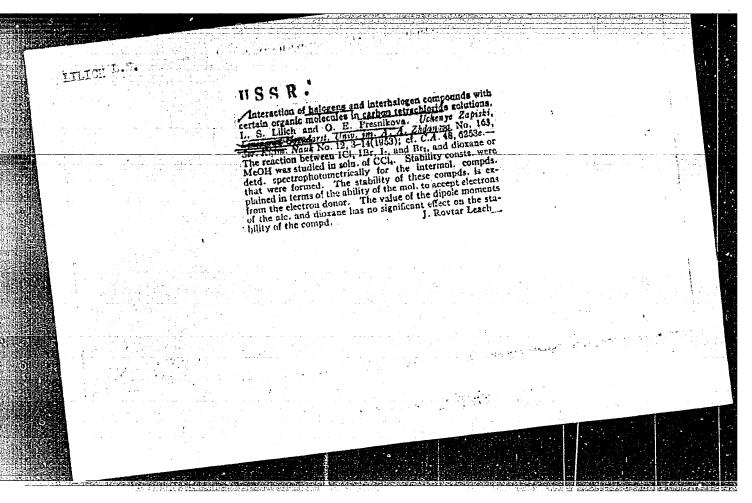
[Czech-Russian leather and shoe dictionary]Cheshsko-russkii kochevenno-obuvnoi slovar'. Moskva, Clav. red. inostr. nauchnotekhn. slovarei Fizmatgiza, 1962. 135 p. (MIRA 16:3)
(Czech language-Dictionaries-Russian)
(Leather-Dictionaries) (Boots and shoes-Dictionaries)

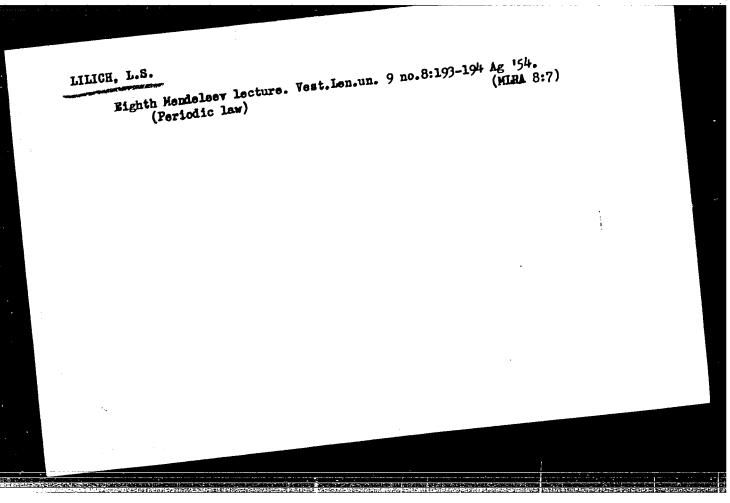












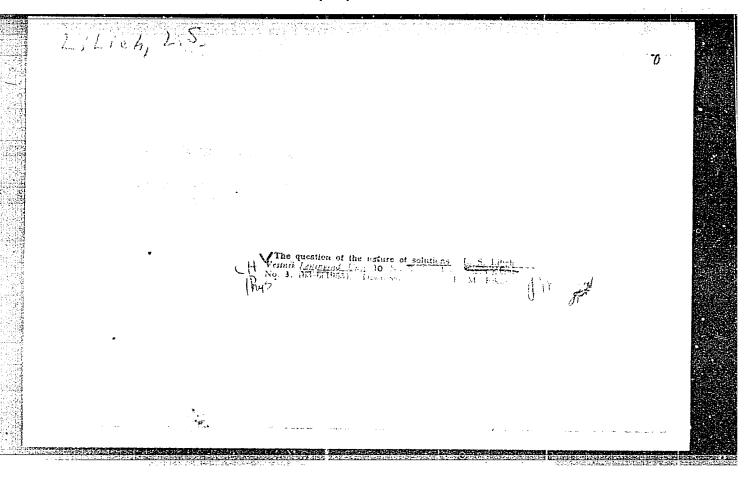
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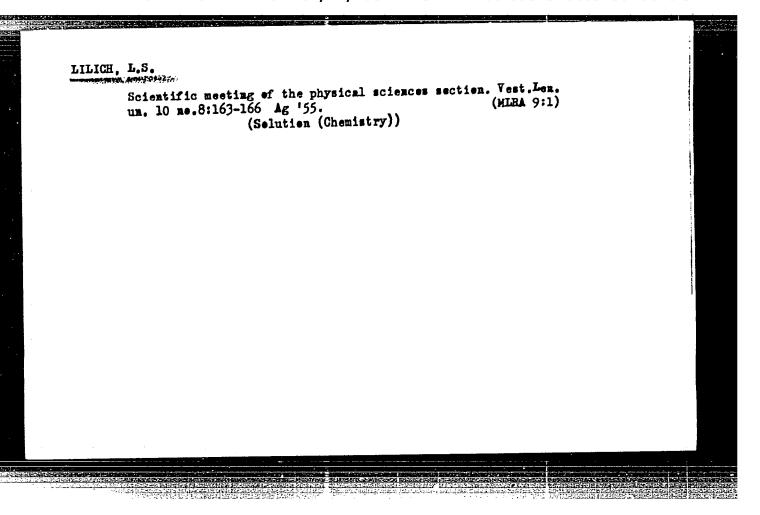
LIKICH, 1.5. USSR/Chemistry - Analysis Card 1/1 Pub. 151 - 15/36 ! Ioffe, B. V., and Likich, L. S. Authors Title ! Investigation of the tetranitromethane-benzene system by means of various physico-chemical analysis methods Periodical: Zhur. ob. khim. 24/1, 81-88, Jan 1954 Abstract The application of thermal and viscosimetric physico-chemical analysis methods, for the study of chemical reactions in the tetranitromethane - benzene system, is debated. The results, obtained by means of spectrophotometric and refractometric physico-chemical analysis methods, are tabulated. The main factor determining the form of isothermal curves obtained during the investi-

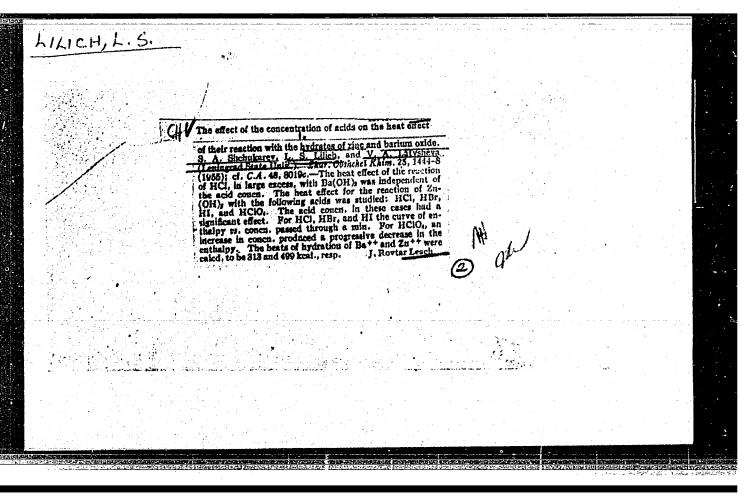
gation of tetranitromethane - benzene systems is elucidated. Seventeen references: 11-USSR; 5-USA and 1-German (1910-1953). Tables; graphs.

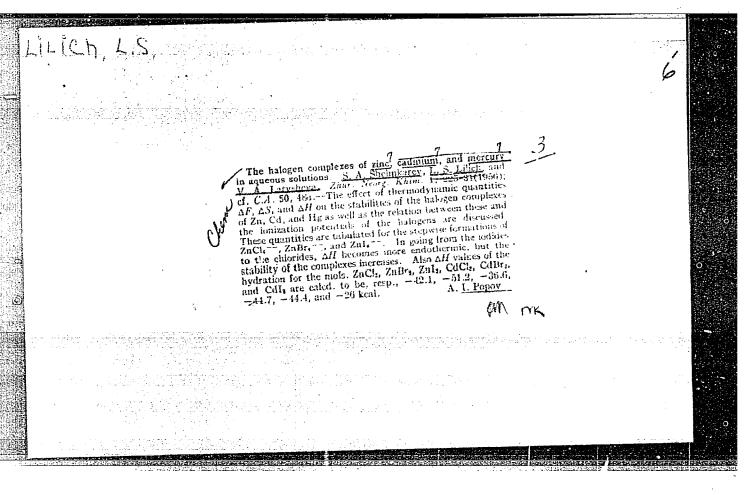
Institution: State University, Chemical Institute, Leningrad

Submitted : August 27, 1953









B-8

Lilich L.S

USSR/Thermodynamics - Thermochemistry. Equilibria.

Physical-Chemical Analysis. Phase Transitions.

: Referat Zhur - Khimiya, No 6, 1957, 18472 Abs Jour

Author : L.S. Lilich, V.I. Timofeyev.

Inst : Leningrad University.

: Steam Pressure in Ternary Solutions. MeCl2 - HCl - H2O. Title

Orig Pub : Vestn. Leningr. un-ta, 1956, No 10, 68-74

Abstract

: The steam pressure in systems ZnCl₂ - HCl - H₂O (I) and CuCl₂ - Cl - H₂O (II) at 25° was measured by the gas current method. The interpretation of the experimental data is done basing on the examination of changes of phases effects of the components according to isoterms - isobars of water (see RZhKhim, 1955, 39726). Judging by the shape of isoterms - isobars, the authors conclude that the processes of component interaction in the system I are of a

different character from that in the system II.

Card 1/1

- 162 -

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, B-8 Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 381

systems ZnCl_2 - HCl - H_2O and CuCl_2 - HCl - H_2O , which

have been studied earlier (part 1, RZhKhim, 1957, 18472). The authors think that an insignificantly expressed complex formation takes place between the chlorine and calcium ions contrarily to a considerable complex formation of chlorine ions with those of zinc and copper.

Card 2/2

意LILICH, L.S.

USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61141

Author: I. Lilich, L. S., Mogilev, M. Ye.; II. Lilich, L. S., Varshavskiy,

Institution: None

Title: On Hydrolysis of Salts. I. Perchlorates of the Elements of Group II of the Periodic System; II. Halides of Zinc, Cadmium and Mercury

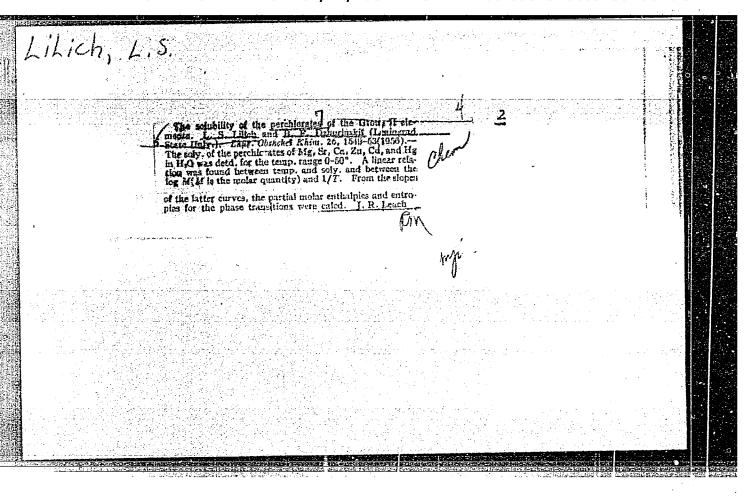
Original

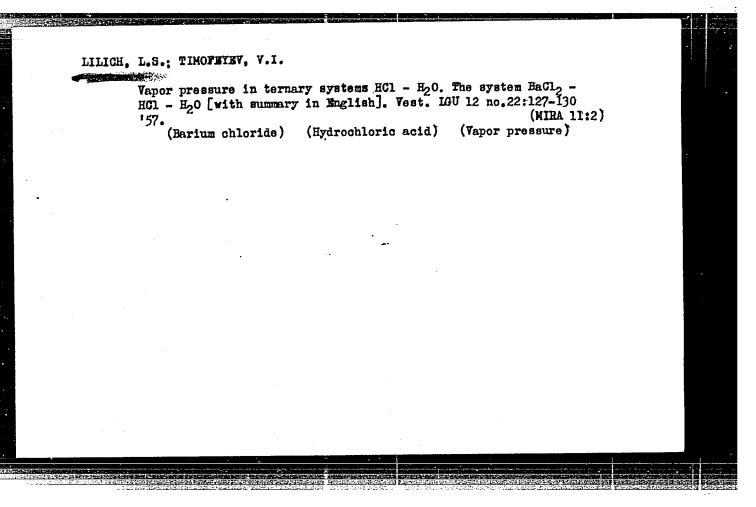
Periodical: Zh. obshch. khimii, 1956, 26, No 2, 312-322

Abstract: I. Determined were the pH of solutions of perchlorates of Be, Mg, Ca, Sr, Ba, Zn, Cd and Hg in the concentration interval from 0 to

with increasing concentration. pH of equimolal solutions of the perchlorate of investigated cathions changes symbatically with the ionization potential I, and for pH as well as there is observed the phenomenon of secondary periodicity; which indicates that

Card 1/2





LILICH, L.S.

Lilich, L. S., and Timofeyev, V. I. AUTHORS:

54-1-25/20

TITLE:

The Vapour Pressure in Ternary Systems: MeCl2-HCl + H2O. System:

BaCl2-HCL-H2O (Davlerge para v troynykh sistemakh MeCl2-HCl+H2O.

Sistema BaCl2-HCl-H2O).

PERIODICAL:

Vestnik Leningradskogo Universiteta Seriya Fiziki i Knimii,

1957, Vol. 22, Nr 4, pp. 127-130 (USSa).

ABSTRACT:

The measurements of the vapour pressure of the above cited system has been carried out at various temperatures. At the whole concentration interval and at all recorded temperatures no HCL has been traced in the gas phase. The activity of the water does practically not depend on the temperature. This shows, that the enthalpy of the evaporation of water from solutions is equal to the enthalpy of the evaporation of pure water. The reason for this lies probably in the

how concentration of the BaCl₂ and of the Hol.
There are 5 figures, 2 tables, and 12 references, 5 of which are

Slavic.

SUBMITTED:

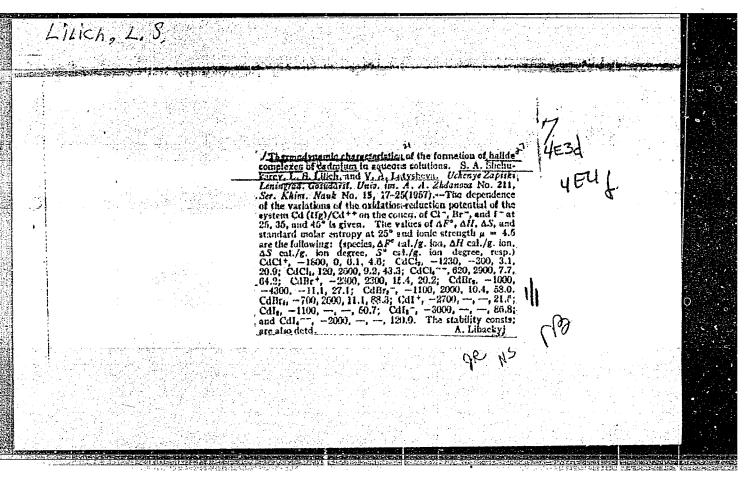
нау 25, 1957.

AVAILABLE.

Library of Congress.

Card 1/1

CIA-RDP86-00513R000929920010-9" APPROVED FOR RELEASE: 07/12/2001



SOV/54-58-3-12/19

Shchukarev, S. A., Lilich, L. S., Timofeyev, V. I. AUTHORS:

of Some Salts (Entropiya The Entropy of the solution TITLE:

rastvoreniya nekotorykh soley)

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, PERIODICAL:

1958, Nr 3, pp 105-111 (USSR)

The method chosen in the present paper has already been ABSTRACT:

applied in the case of the mixture of two liquids (Refs 4-6). a lo noitules The new feature is its application to the solid in a liquid solvent. The authors expressed the thermodynamical functions as solution functions (n) and not as functions of the molar fraction. This made possible a better approximation to the ideal state in aqueous salt solution entropy was computed for a number solutions. The of salts (mainly for the halogens of the elements of the I. and II. group of the periodic system) and for a certain range of concentrations. The computed data are given in figures

1 and 2 and in tables 1 and 2. The absolute entropies of some solutions were computed as well (Table 3). From the

curves conclusions concerning the thermodynamics of the Card 1/2

The Entropy of the Solution of Some Salts

SOV/54-58-3-12/19

solution and to a certain degree also of the solution itself can be deduced. According to the relative position of the three basic thermodynamical functions at least 3 cases are strikingly evident: a) $\Delta \; Z$ and $\Delta \; H$ are in the exothermic and Δ S in the endothermic range; b) Δ Z is in the exothermic, Δ II and Δ S are in the endothermic range; c) \triangle Z, \triangle S, and \triangle H are all exothermic. It turned out that in some cases the enthalpy - the interaction between the solvent and the substance to be dissolved - plays a considerable role. In other cases the increase in entropy of the solvent and of the dissolved substance during their interaction is decisive. Finally cases exist in which both factors act in one and the same direction. The suggested computation method classifies the solutions according to Mendeleyev's conceptions concerning solutions as belonging into one line with common chemical compounds. There are 7 figures, 2 tables, and 7 references, 4 of which are Soviet.

SUBMITTED:

January 9, 1958

Card 2/2

SOV/54-58-3-18/19 Timofeyev, V. I AUTHORS: Shchukarev, S. A., Lilich, L. S.,

TITLE: Modification of the Isobaric Potential During the Solution

of Some Halides in Water (Izmeneniye izobarnogo potentsiala

pri rastvorenii nekotorykh galogenidov v vode)

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1958, Nr 3, pp 149-155 (USSR) PERIODICAL:

In the present paper the authors computed the change of the ABSTRACT:

isobaric Gibbs potential A Z of a number of substances when they are mixed with water. The computed quantities are of practical importance as they characterize the real and practically important formation processes of solutions and their components. In the computation of the change of Δ Z the

equation $\Delta Z = \Delta \mu_1 + n \Delta \mu_2$ was used as starting point.

 $\Delta \mu_1$ denotes the change of the change potential of the dis-

solved substance at the transition from the pure salt or the saturated solution to the solution of the respective concentration; n denotes the number of moles of the solvent

Card 1/2 per 1 mol of the dissolved substance; $\Delta \mu_2$ denotes the change

sov/54-58-3-18/19

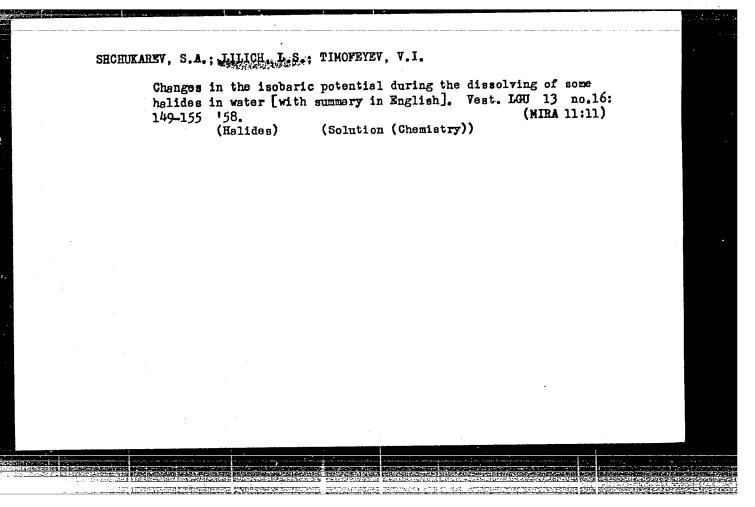
Modification of the Isobaric Potential During the Solution of Some Halides in Water

of the chemical potential of the solvent during the transition from the pure solvent to the solution in question. The change of Δ Z (at T = 25°) during the formation of some salt solutions (halides of the elements of the I. and II. group of the periodic system) in the initial state - salt plus water - was computed. (Tables 1, 2). The integral quantities determined are represented as solution functions of the solutions n . A contrast between the functions Δ Z = \int (n) permits to draw conclusions on their resemblance in form and the difference in their relative position. The latter depends on the chemical individuality of the interacting systems. Some advantages of the employed reading scale as compared to the usual scale for electrolytic solutions are shown. There are 2 figures, 1 table, and 12 references, 7 of which are Soviet.

SUBMITTED:

January 9, 1958

Card 2/2



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Akademiya nauk 353R. Gedeleniye khimicheskikh nauk Termedinamka i stroyeniye pratvorovi trusiy soveehchaniya. (Termedinamka i stroyeniye pratvorovi trusiy soveehchaniya. (Termedinamka i stroyeniye pratvorovi trusiy soveehchaniya. (Termedinamka i solutione Transaction Conference Haid January 27-30, 1998) Moscow, Izd-vo AN 1959. 295 p. 3,000 copies printed. Meis M. I. Shakmparonov, Doctor of Chemical Solances; Ed. House: M. G. Yagorovy Tech. Mi. T. V. Folyakova. FURFORI: This book is intended for physicists, chemists, chemical engineers. COVERAGE: This collection of papers was originally preserved to the Section of Chemical Sciences of the Academy of Solution Papers and the Department of Memistry of Moscow States and beld in Moscow on January 27-30, 1956. Officers of Chemical Sciences of the Academy of Solution Papers and the Department of Memistry of Moscow States and beld in Moscow on January 27-30, 1956. Officers of Chemical Sciences of the Academy of Chemical Sciences of the Academy of Section Conference and the Chemical Sciences of the Academy of Section Conference and the Chemical Sciences of the Academy of Section Conference and the Chemical Sciences of the Academy of Section Conference and the Chemical Sciences of the Academy of Section Conference and Chemical Sciences of the Academy States and Chemical Sciences of Sciences of the Academy States and Chemical Sciences of Sciences of Sciences of Scie	Shalps and a second with the second s	atrolytes in the control of the cont
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5(2,4) 507/54-59-2-9/24 AUTHORS: Shchukarev, S. A., Lilich, L. S., Latysheva, V. A., Chuburkova, I. I. On the Heats of Reaction of CdO and Cd(OH), With Hydrogen TITLE: Halides and Perchloric Acids (O teplotakh vzaimodeystviya CdO i Cd(OH), s galogenovodorodnymi i khlornov kislotami) PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 2, pp 66-71 (USSR) From the measurements of the heats of reaction of metal oxides ABSTRACT: and their hydrates, information is obtained on the state of the ions in solutions. The method of this investigation consists in determining the heat effects of individual processes in the reaction of metal hydroxides and oxides with the acids. (Destruction of the oxide lattice, dissociation of the acid, formation of $\rm H_2O$ molecules from the $\rm H^+$ and $\rm OH^-$ ions, and formation of complexes between the ions of the metal, of the water and the anions of the acids.) As in the investigations of the present paper only one metal was used, the difference in the heat ef-Card 1/4 fects lies only in the complex formation and is dependent on

On the Heats of Reaction of CdO and Cd(OH)₂ With Hydrogen Halides and Per-

the various acids used. The perchloric acid which shows no tendency to form a complex was assumed as a zero solvent. The Cd-hydroxides and oxides were synthesized in a crystalline form, and checked for purity by means of X-rays and chemically. The measurements of the heats of reaction of the mentioned crystals with the solvents HCl, HBr, HJ, and HClO, were carried out at 25° with various concentrations of the latter. The results are compiled in a table and represented in a figure. The values of J. Thomsen (Ref 5) are also indicated for comparison. The table and the figure show that at low concentrations of HCl and HBr the reaction proceeds endothermically, at an increase in concentration, however, it becomes exothermal. The minimum shifts from HCl to HBr to lower concentrations. In case of HJ, there is nearly no minimum at all. The HC104 solution produces a straight line which becomes thermically more and more negative with an increase in concentration. There is a good agreement of the values obtained for the two former solutions with the values of Thomsen, but a

Card 2/4

On the Heats of Reaction of CdO and Cd(OH)₂ With Hydrogen Halides and Per-

noticeable deviation in case of HJ. Thomsen used solutions in the stoichiometric ratio G : Cd⁺⁺, whereas in this paper this ratio was varied between 20 and 400 with an excess in G (G = cof other authors who determined were also compared with values methods (Refs 9-15). As in previous papers (Ref 2), the hydration heat of Cd⁺⁺ was computed by the formula: h_{Cd}⁺⁺ = -\Delta H U O OH + 2H. In this formula, \Delta H = heat effect of the reaction: Cd(OH)₂ + HClO₄, U₀ = lattice energy of the hydroxide, h_{OH} = hydration heats of the OH-ions, H = heat effect of the formation of H₂O from the hydrated ions. The value with the values known from publications. Yatsimirskiy (Ref 18): h_{Cd}⁺⁺ = 436 kcal/mol, and Mishchenko and Podgornaya (Ref 20): 445 kcal/mol. There are 1 figure, 1 table, and 20 references,

Card 3/4

On the Heats of Reaction of CdO and Cd(OH)₂ With Hydrogen Halides and Per-SUBMITTED: January 18, 1958

5(4) AUTHORS:

Lilich, L. S., Shapkina, Yu. S.

SOV/54-59-2-14/24

TITLE:

Vapor Pressure Over the Systems: MeCl₂-HCl-H₂O. The Systems: MgCl₂-HCl-H₂O; SrCl₂-HCl-H₂O; HgCl₂-HCl-H₂O (Davleniye para

nad sistemami: MeCl2-HCl-H2O. Sistemy: MgCl2-HCl-H2O;

SrCl2-HCl-H2O; HgCl2-HCl-H2O)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii,

1959, Nr 2, pp 93-99 (USSR)

ABSTRACT:

As an extension to the investigations of ternary systems of the type mentioned in the title, the change of the chemical potential of the volatile components over these systems (the change of this potential is in connection with the periodical law) was systematically investigated. In this paper, the systems containing bivalent cations of the metals of the 2nd group of the periodic system were considered. The elements Mg, Sr, and Hg were chosen (other elements of this group had already been investigated in previous papers, Refs 1,2,3) because Mg is typical for this group, Sr belongs to the prin-

Card 1/4

Vapor Pressure Over the Systems: MeCl₂-HCl-H₂O. The Systems: MgCl₂-HCl-H₂O; SrCl₂-HCl-H₂O; HgCl₂-HCl-H₂O;

cipal subgroup, and Hg to the secondary subgroup. The working method, the computation methods and the measuring accuracy are the same as in the mentioned papers. In the analysis, Mg was determined by trilon "B" with the indicator "eriochrome black" (Ref 4), Sr' by precipitation from alcoholic solutions with sulphuric acid, and Hg by indirect filtration by means of NH₄CNS (Ref 6), and the oxygen was determined potentiometrically. The partial pressures of the volatile components (H₂O and HCl) over the solution at 25° were determined for the investigations are represented in tables 1-3 and in figures 1-8. The representation of the isothermals/isobars for a number of pressures shows: The isothermals/isobars of the systems MgCl₂-HCl-H₂O and SrCl₂-HCl-H₂O are completely straight, whereas the isothermals/isobars of the systems MgCl₂-HCl-H₂O differ from those of the other two systems in a shape and position. On the basis

Card 2/4

SOV/54-59-2-14/24 . Vapor Pressure Over the Systems: MeCl₂-HCl-H₂O. The Systems: MgCl₂-HCl-H₂O; SrCl₂-HCl-H₂O; HgCl₂-HCl-H₂O

> of the available experimental material, and of materials from previous papers (Refs 1-3), it could be ascertained that there are two types of isothermals/isobars: one type is characteristic of systems in which there are no complex-forming ions, the other one of systems with a marked complex formation. In systems containing no complex-forming ions, the vapor pressure of the water over the ternary system is determined by the properties of two two-component systems which are formed in them (e.g. for the three-component system MgHCl2-HCl-H2O, the two two-component systems HCl-H₂O and MgCl₂H₂O). This fact is characteristic of the elements of the principal subgroup of the periodic system. It had already been ascertained by several authors (Zdanovskiy, Ref 7, and L. Ezrokhi, Ref 8). The complex-forming ions, present in the solution, show a tendency of forming complexes with the Cl-ions, and thus they weaken the hydrate envelope around the metal ion; they have a "salting" effect on HCl and a "desalting" effect on water. The inverse circumstances apply to the ions which do not form

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Vapor Pressure Over the Systems: MeCl₂-HCl-H₂O. The Systems: MgCl₂-HCl-H₂O; SrCl₂-HCl-H₂O; HgCl₂-HCl-H₂O

complexes. There are 8 figures, 3 tables, and 9 references, 8 of which are Soviet.

SUBMITTED: June 29, 1958

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929920010-9"

Card 4/4

507/78-4-1-31/48 5(4) Lilich, L. S. AUTHOR: On the Question of the Interaction of Ions in Aqueous Solutions (K voprosu o vzaimovliyani. 1070. v vcdnykn TITLE: rastvorakh) Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 1, pp 163-168 PERIODICAL: (USSR) By examining the solubility of salts in composite solvents the reciprocal influence of ions in the solution was investi-ABSTRACT: gated. Solubility was examined in the following four systems: $HgCl_2 - Hg(ClO_4)_2 - H_2O$, $HgCl_2 - HCl - H_2O$, $BaCl_2 - HCl - H_2O$, $BaCl_2$ - $Ba(ClO_4)_2$ - H_2O . These systems have the same ionic charges but different chemical properties. Solubility was investigated at 25, 35, and 45°C. According to the results obtained the solubility of BaCl2 in solutions of HCl and $Ba(ClO_4)_2$ decreases with an increase of the concentration of the latter. The solubility of HgCl2 increases with an increase of the concentration of the anhydrous component of the solvent. In order to explain this increase in solubility it would be Card 1/2

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Ions in Aqueous Solutions

necessary to carry out thermodynamic investigations of the polynuclear complexes. A comparison of the solubility of BaCl2 and HgCl2 in the respective solvents shows the influence of chemical factors upon the activity of the ions in the solutions. There are 4 figures, 1 table, and 21 references, 8 of which are Soviet.

SUBMITTED:

October 2, 1957

Card 2/2

5(2)

AUTHORS:

sov/78-4-10-5/40

Shchukarev, S.A., Lilich, L. S., Latysheva, V. A.,

Andreyeva, D. K.

On the Heats of Interaction of HgO With Aqueous Solutions of TITLE:

HCl, HBr, HJ, and HClO,

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 10, PERIODICAL:

pp 2198-2203 (USSR)

This paper is a continuation of the papers of references 1-3 ABSTRACT:

on the heats of interaction of oxides and hydroxides of the metals of the 2nd group of the periodic system with halogen hydracids and chloric acid. The authors try to evaluate the total variation (ΔH) of enthalpy on formation of halogen complexes by comparison of the heat of interaction of the metal oxide with complex-forming acids (HCl, HBr, HJ) and with HClO4 which is not complex-forming. So far Ba, CuII, Zn and Cd have been investigated. The investigation of the interaction of HgO now presented permits a comprehensive survey regarding the behavior of the zinc-subgroub. The dependence of ΔH_{298} on the

acid concentration (1-4 mole/1) is presented in table 1 and

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On the Heats of Interaction of HgO With Aqueous Solutions of HCl, HBr, HJ,

and HClO

figure 1. The dependence on kind and concentration of the anions is determined by complex formation. The formation of mercury-halogen complexes is exothermic in the concentration range investigated. The heat of hydration of the Hg2+-ion calculated to be 441 kcal/mole is in good agreement with the data in publications (Table 2). With increasing atomic number of the cation of the zinc-subgroup and of the anion of the chlorine-subgroup the endothermic nature of the complex formation decreases and the exothermic nature increases (Table 3). With increasing atomic number of the cation also the difference between the formation enthalpies of the Cl-, Br-, and J-complexes increases (Fig 2). A secondary periodic dependence between the atomic numbers of the metal and the influence of the acidity upon the enthalpy of the interaction between the oxides (hydroxides) of Zn, Cd, Hg and chloric acid was found to exist (Fig 3). This dependence is explained by a different weakening of the interaction of the cations with the water, similar to that observed by O. Ya. Samoylov (Ref 16) in the system alkaline earth chloride - hydrochloric acid. The concentration of the hydracids affects the nature of the dependence of the enthalpy of the complex compounds on the atomic number of the

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SOV/78-4-10-5/40 On the Heats of Interaction of HgO With Aqueous Solutions of HCl, HBr, HJ,

and HClO

cation. There are 3 figures, 3 tables, and 18 references,

12 of which are Soviet.

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova Kafedra neorganicheskoy khimii (Leningrad State University ASSOCIATION:

imeni A. A. Zhdanov, Chair of Inorganic Chemistry)

SUBMITTED: July 20, 1958

Card 3/3

05888

5(2) AUTHORS:

Lilich, L. S., Anikiyeva, M. D.

SOV /78-4-11-41/50

TITLE:

The Vapor Pressure in the Systems CaX2 - HX - H20

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11,

pp 2630-2634 (USSR)

ABSTRACT:

The investigation was carried out from the point of view that the vapor pressure of the volatile component over a solution characterizes the chemical potential of this component in the solution. The system mentioned in the title was investigated with X = halogen ion. The hydriodic acid was prepared according to Yu. V. Karyarin (Ref 6). The measurement results are shown in tables 1-5 and figures 1-4. The isothermal-isobamic lines of water in the coordinate system HX = CaH₂ (X = Cl, Br, T: are parallel attraight lines in all three systems investigated. Like in the

straight lines in all three systems investigated. Like in the corresponding binary systems, the vapor pressure increases also here in the sequence iodides = bromides = chlorides. This is in contradiction to the increase in hydration heat from Cl to I of the

ions Cl., Br., I, but is explained by the hydration enthalpy of the halides (Ref 12), The linear course of the isothermal-isobars

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The Vapor Pressure in the Systems CaX_2 - HX - H_2O

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in the tertiary systems agrees with the rules by A. B. Zdanovskiy (Ref 13) and L. Ezrokhi et al (Ref 14). If the vapor pressure of the solvent common to two binary systems is known, the vapor pressure for the ternary system can be determined. There are 4 figures, 5 tables, and 14 references, 12 of which are Soviet.

SUBMITTED:

July 22, 1958 -

Card 2/2

SHCHUKAREV, S.A.; LILICH, L.S.; LATYSHEVA, V.A.; CHUBURKOVA, I.I.

Heat of reaction of CdO and Cd(OH)₂ with hydrogen halides and perchloric acid. Vest.LGU 14 no.10:66-71 *59.

(HIRA 12:6)

(Gadmium oxide) (Cadmium hydroxide) (Heat of reaction)

Vapor pressures over the MeCl₂ - HCl - H₂O systems. Systems:

Vapor pressures over the MeCl₂ - HCl - H₂O; H₂Cl₂ - HCl - H₂O.

Systems: MgCl₂ - HCl - H₂O; SrCl₂ - HCl - H₂O; H₂Cl₂ - HCl - H₂O.

Vest.LGU 14 no.10:93-99 '59.

(Systems (Chemistry) (Vapor pressure)

LATYSHEVA. V.A.; LILICH, L.S.; SIRENKO, A.S.

Effect of certain salts and acids on the rate of oxidation of
I ions by Fe³⁺ ions. Vest.LCU 15 no.10:121-130 160.

(MIRA 13:5)

LILICH, L.S.; SMIRNOVA, R.S.; OKATOVA, A.I.

Water vapor pressure in the system Me(ClO₄)₂ - HclO₄ - H₂O. Zhur.

neorg.khim. 7 no.2:377-378 F '62. (MIRA 15:3)

(Ferchlorates) (Systems (Chemistry)) (Vapor pressure)

Chemical potentials in MoX₂ ~ HX - H₂O systems. Fart 1: Chemical potentials of hydrochloric acid in McCl₂ ~ HCl - H₂O systems. Vest.IGU 17 no.10:140-143 '62. (MIRA 15:5) (Hydrochloric acid—**Rlectric properties) (Systems (Chemistry))

LILICH, L.S.; ANDREYEVA, D.K.; LOGINOV, A.A.

The water vapor pressure in the systems: MeX, -HX-H.O. The systems: CdBr₂ - HBr -H₂O: CdI₂ -HI -H₂O; HgI₂ - HT -H₂O. V₆st. LGU 17 no.16:101-107 62. (MIRA 15:9)

(Vapor pressure) (Systems (Chemistry))

LILICH, L.S.; SAPOZHNIKOV, O.V.

Vapor pressures in the systems $CuCl_2 - HCL - H_2O$ and $Cu(ClO_4)_2 - HClO_4 - H_2O$. Izv.vys.ucheb. zav.;khim.i khim.tekh. 6 no.4:572-577 163. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Kafedra obshchey khimii.

LILICH, L.S.; SAPOZHNIKOVA, C.V.

System CuCl₂ - HCl - H₂O at 25°. Znur. neorg. khim. 9 no.9:
2219-2221 \$ '64.

(MIRA 17:11)

STORONKIN, A.V., doktor khim. nauk, otv. red.; LILICH, L.S., kand. khim. nauk, otv. red.; POZDYSHEVA, V.A., red.

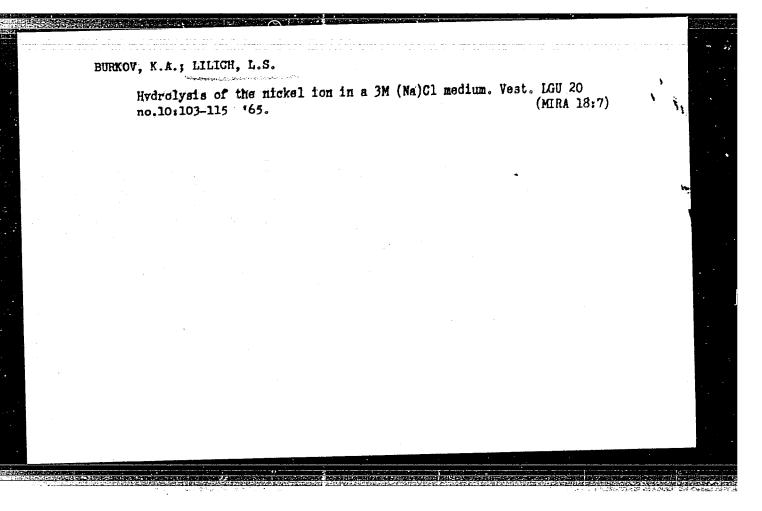
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(MIR: 18:1)

1. Leningrad. Universitet.

LILICH, L.S.; CHERNYKH, L.V.; SMALYGIN, V.M.

Solubility in the systems (a(ClO_A)₂ - HClO₄ - H₂O and Cd(ClO_A)₂ - HClO₄ - H₂O. Zhur. neorg, khim. 8 no.12:2773-2777 D *163. (MIRA 17:9)



LILICH, L.S.; OVTRAKHT, M.V.

Solubility in the systems Ca(ClO₂)₂ - MaClO₂ - H2O and Cd(10₄)₂ - MaClO₂ - H₂O at 25°C. Vest. LCU 20 no.l0:116-119 '65. (MIRA 18:7)

THODORESCU, P. Prof.; BEHCKANU, St., Jr.; Mils, M. Br.; SIRBULESCU, R. Br.,

Endomyocardofibrosis; clinical and morphopathological aspects.

Med. int., Endur. 9 no.5:74-751 May 57.

1. Lacrare efectuate in Clinica a VI-n medicala I.E.F. a Spitalului
Dr. I. Cantacuzino.

(FEART DISEAMES

andomyocardial fibrosis, clin. & mathol. aspects)

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TEODORESCU, P.; STEFAN, I.; LILIS, M.; STREULESCU, R.; CONSTANTINESCU, P.;

TINCU, S.

The adrenal glands & cardiac failure: functional tests & therapeutic attempts. Rumanian M. Rev. 3 no.1:15-21 Jan-Mar 59.

(CONSENTIVE HEART FAILURE

adrenal cortex funct. & prednisone ther.)

(ADRENAL CORTEX, physical.

in congestive heart failure, application to prednisone ther.)

(PERDNISONE, ther. use congestive heart failure, indic. by adrenal cortex funct.)
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TEODORESCU, P., Prof.; LILIS, M., dr.; MARES, A., dr.; CONSTANTINESCU, D., dr.

Acute cerebral circulatory insufficiency. Med. intern., Bucur 11
no.5:691-698 '60.

1. Lucrare efectuata in Clinica medicala, Spitalul "Dr. I. Cantaczino", Bucuresti.

(BRAIN, blood supply)

TEODORESCU, P., prof.; LILIS, M., dr.; STEFAN, I., dr.; TINCW, Silvia, chemist; SIRBULESCU, R., dr.; POMPILIAN, P., dr.; CUCU, N., dr.; STERIAN, Iolanda

Treatment with sulfonamide diuretics in refractory cardiac insufficiency. Med. intern., Bucur 13 no.1:121-135 Ja '61.

(HEART FAILURE, CONGESTIVE therapy) (CHLOROTHIAZIDE related cpds)

TEODORESCU, P., prof.; STEFAN, I.; LILIS, M.; SIRBULESCU, R.; TINCU, S.; POMPILIAN, P.

Contributions to the functional characterization of the adrenal cortex in heart failure. Rumanian M Rev. no.1:272 Ja-Mr '61.

1. Medical Clinic, Cataruzino Hospital, Medicopharmaceutical Institute, Bucharest. Head of the Clinic: Prof. P. Teodorescu.

(ADRENAL CORTEX physiology) (HEART FAILURE, CONGESTIVE physiology)